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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 29-11-2018

Lab ID	:	**CP-2019-04-03-01**
Project Name	:	Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.
Agency	:	Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt	:	26-11-2018
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-11-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Sr. Srinivas AE

Sr. Srinivas AE

Sr. Srinivas AE

Asst. Executive Engineer
Project Division
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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2019-04-03-01** **Date: 26-12-2018**

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 26-11-2018

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 27-11-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Sm. Smt AE Jr n/a

AE

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-03-01**	**Date: 29-11-2018**
Project Name	:	Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.	
Agency	:	Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18	
Date of Receipt	:	26-11-2018	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)	
		IS: 2386 :1963(Part - 1,3,4) RA2011	
		IS 2386 Part 1: Particle Size and Shape	
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
		IS 2386 Part 4: Mechanical Properties	
Date of test	:	26-11-2018	

Sri. Srinivas AE for w/o

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-04-03-01** **Date: 29-11-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.3**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.41**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.23**	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-03-01**	**Date: 28-11-2018**
Project Name	:	Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.	
Agency	:	Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.	
Customer Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18	
Date of Receipt	:	26-11-2018	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	26-11-2018	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-04-03-01** **Date: 28-11-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-04-03-01** **Date: 28-11-2018**

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 26-11-2018

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of Test : 26-11-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	12	12	1.2	98.8	90-100	90-100	90-100	95-100
3	2.36 mm	155	167	16.7	83.3	60-95	75-100	85-100	95-100
4	1.18 mm	163	330	33.0	67.0	30-70	55-90	75-100	90-100
5	600 micron	224	554	55.4	44.6	15-34	35-59	60-79	80-100
6	300 micron	272	826	82.6	17.4	5-20	8-30	12-40	15-50
7	150 micron	144	970	97.0	3.0	0-10	0-10	0-10	0-15
8	Pan	30	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-04-03-01** **Date: 28-11-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.22	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	3.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : **CP-2019-04-03-01** **Date: 01-12-2018**

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 30-11-2018

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 30-11-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	509	612	22.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	548	672	21.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.582	568	697	20.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.479	589	702	19.5%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.473	598	710	18.0%	Satisfactory	Satisfactory
8	Sunvik	Fe500	32	4.362	612	764	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/03/2019

Lab ID : CP-2019-04-03-01

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 02-03-2019

Customer ID : Pile Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pile Concrete	M20	28/02/2019	07/03/2019	151.00 X 151.35 X 150.01	22854	**8.011**	429.2	18.8	18.6
2	Pile Concrete	M20	28/02/2019	07/03/2019	151.21 X 150.25 X 149.15	22720	**8.894**	430.2	18.9	
3	Pile Concrete	M20	28/02/2019	07/03/2019	149.86 X 149.12 X 151.89	22348	**8.634**	407.5	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-04-03-01** **Date: 28/03/2019**

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 02-03-2019

Customer ID : Pile Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pile Concrete	M20	28/02/2019	28/03/2019	150.97 X 151.86 X 151.54	22926	**8.286**	540.9	23.6	23.3
2	Pile Concrete	M20	28/02/2019	28/03/2019	150.45 X 149.09 X 151.94	22431	**8.229**	499.5	22.3	
3	Pile Concrete	M20	28/02/2019	28/03/2019	149.51 X 149.60 X 151.10	22366	**8.730**	535.1	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/03/2019

Lab ID : **CP-2019-04-03-01**

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 02-03-2019

Customer ID : Pile Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pile Concrete	M20	28/02/2019	07/03/2019	149.57 X 150.37 X 151.97	22490	**8.011**	413.0	18.4	18.6
2	Pile Concrete	M20	28/02/2019	07/03/2019	150.27 X 149.47 X 150.70	22461	**8.894**	416.3	18.5	
3	Pile Concrete	M20	28/02/2019	07/03/2019	149.92 X 149.94 X 151.87	22480	**8.634**	425.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/03/2019

Lab ID : **CP-2019-04-03-01**

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 02-03-2019

Customer ID : Pile Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pile Concrete	M20	28/02/2019	28/03/2019	150.96 X 149.98 X 149.92	22641	**8.286**	531.0	23.5	23.2
2	Pile Concrete	M20	28/02/2019	28/03/2019	150.04 X 151.55 X 149.74	22738	**8.229**	503.1	22.1	
3	Pile Concrete	M20	28/02/2019	28/03/2019	151.45 X 150.03 X 149.48	22723	**8.730**	542.8	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/03/2019

Lab ID : **CP-2019-04-03-01**

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 02-03-2019

Customer ID : Pile Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of Test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
01	Pile Concrete	M20	28/02/2019	07/03/2019	149.97 X 149.73 X 149.36	22455	**8.011**	425.2	18.9	18.8
02	Pile Concrete	M20	28/02/2019	07/03/2019	149.13 X 150.19 X 149.75	22397	**8.894**	416.4	18.6	
03	Pile Concrete	M20	28/02/2019	07/03/2019	151.37 X 151.67 X 149.20	22959	**8.634**	430.1	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/03/2019

Lab ID	:	**CP-2019-04-03-01**
Project Name	:	Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli Sub Division.
Agency	:	Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt	:	02-03-2019
Customer ID	:	Pile Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pile Concrete	M20	28/02/2019	28/03/2019	150.66 X 150.31 X 151.20	22646	**8.286**	533.6	23.6	23.4
2	Pile Concrete	M20	28/02/2019	28/03/2019	151.10 X 149.90 X 149.94	22650	**8.229**	518.3	22.9	
3	Pile Concrete	M20	28/02/2019	28/03/2019	151.40 X 149.85 X 149.32	22686	**8.730**	538.5	23.7	

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